

UNITED STATES PATENT AND TRADEMARK OFFICE

CNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. APPLICATION NO. FILING DATE 10/751.619 01/05/2004 Max P. McDaniel 51757-0623 2424 EXAMINER 35395 05/26/2004 LU, C CAIXIA JEFFERY B. ARNOLD - CHEVRON WOMBLE CARLYLE SANDRIDGE & RICE, PPLC PAPER NUMBER ONE ATLANTIC CENTER - SUITE 3500 ART UNIT ATLANTA, GA 30309 1733

DATE MAILED: 05/26/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

			- M
•	Application No.	Applicant(s)	
	10/751,619	MCDANIEL ET AL.	*
Office Action Summary	Examiner	Art Unit	
	Caixia Lu	1713	
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).			
Status			
1) Responsive to communication(s) filed on			
,	s action is non-final.		
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is			
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.			
Disposition of Claims			
4) Claim(s) <u>26-49</u> is/are pending in the application.			
4a) Of the above claim(s) is/are withdrawn from consideration.			
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>26-49</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/or election requirement.			
Application Papers			
9) The specification is objected to by the Examiner.			
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.			
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).			
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.			
Priority under 35 U.S.C. § 119			
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 			
Attachment(s)	_		
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summan Paper No(s)/Mail D		
Notice of Draftsperson's Patent Drawing Review (P10-946) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date		Patent Application (PTO-152))

Application/Control Number: 10/751,619

Art Unit: 1713

DETAILED ACTION

Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 2. Claims 26-49 are rejected under 35 U.S.C. 112, second paragraph, as failing to set forth the subject matter which applicant(s) regard as their invention. Evidence that the claims fail to correspond in scope with that which applicant(s) regard as the invention can be found in the specification (page 2, the last paragraph to page 3, 2nd paragraph) as originally filed, where applicants state that the composition of matter can be produced by contacting an organometal compound, a solid Lewis acid compound (solid mixed oxide) and an organoaluminum compound, and this statement indicates that the invention is different from what is defined in the claims because the instant claims do not require the presence of both of the organometal compound and the organoaluminum compound in the composition.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 26-49 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ernst et al. (US 6,225,252).

Application/Control Number: 10/751,619

Art Unit: 1713

Ernst's working examples such as Examples 1 and 2 of cols. 7-8 teach a supported catalyst composition comprising silica, bis(trimethylsilyl)silanediylbis(2-methylindenyl) zirconium dichloride and triisobutylaluminum. It is noted that the support of Ernst's working examples is silica alone rather a solid mixed oxide, however, the mixed oxide is expressly taught in Ernst's Abstract and col. 2, line 3. It is also noted that Ernst does not expressly teach the activity of the catalyst toward ethylene polymerization. However, based on the high activities of propylene polymerizations shown in the working examples, one would have expected the activities of Ernst's catalyst for ethylene polymerization to be at least in the ranges of the instant claims when tested.

Thus, it would have been obvious to a skilled artisan at the time the invention was made to employ Ernst's teaching to provide a catalyst composition by using a mixed oxide support since such is within the scope of Ernst's invention and in the absence of any showing criticality and unexpected results.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Caixia Lu whose telephone number is (571) 272-1106. The examiner can normally be reached from 9:00 am to 3:30 pm.

If attempts to reach the examiner by telephone are unsuccessful and the matter is urgent, the examiner's supervisor, David Wu, can be reached at (571) 272-1114. The fax numbers for the organization where this application or proceeding is assigned is (703 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (571) 272-1700.

Caixia Lu, Ph. D. Primary Examiner May 21, 2004